

# TI processing at CMS

# Jacob Linacre - Fermilab

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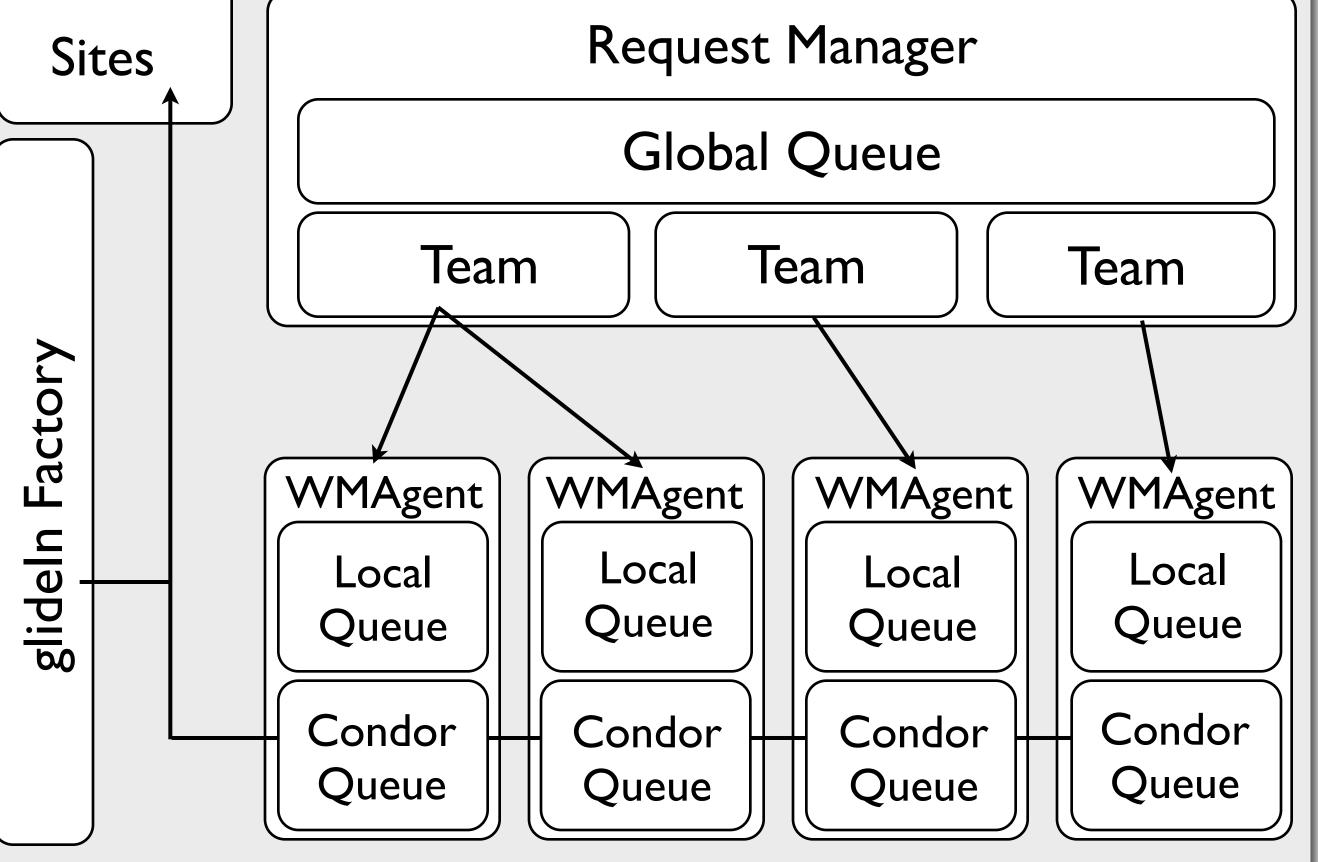
## TI Coordinator

# TI coordinators oversee processing of data and MC at TI sites

- Resource planning
- Support to requestors as they inject work
- Preparing and assigning workflows
- Recover problematic workflows
- Report any software problems uncovered
- Announce output datasets
- General dataset book-keeping
- Maintain overview of workload
- Identify and resolve problems affecting any part of the processing infrastructure

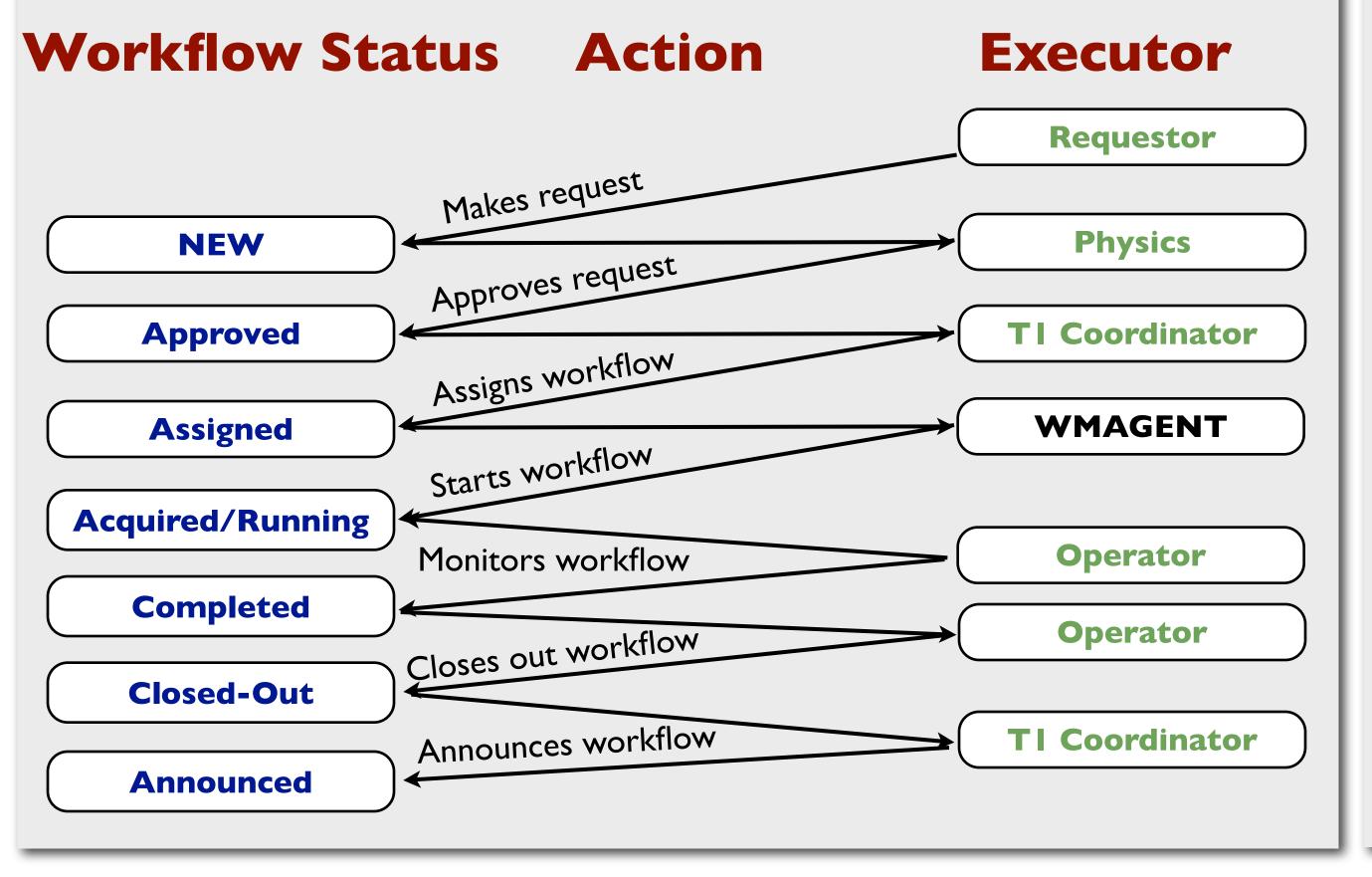
# Processing structure

- Work is injected into the Request Manager
- It is assigned to one of the WMAgents via a team
- A team for each purpose: t1, mc and relval
- The WMAgents submit jobs to the sites



### Actions

Actions taken depending on the status of a workflow as it progresses to completion.



# Request Manager

All workflow actions and monitoring take place in the Request Manger

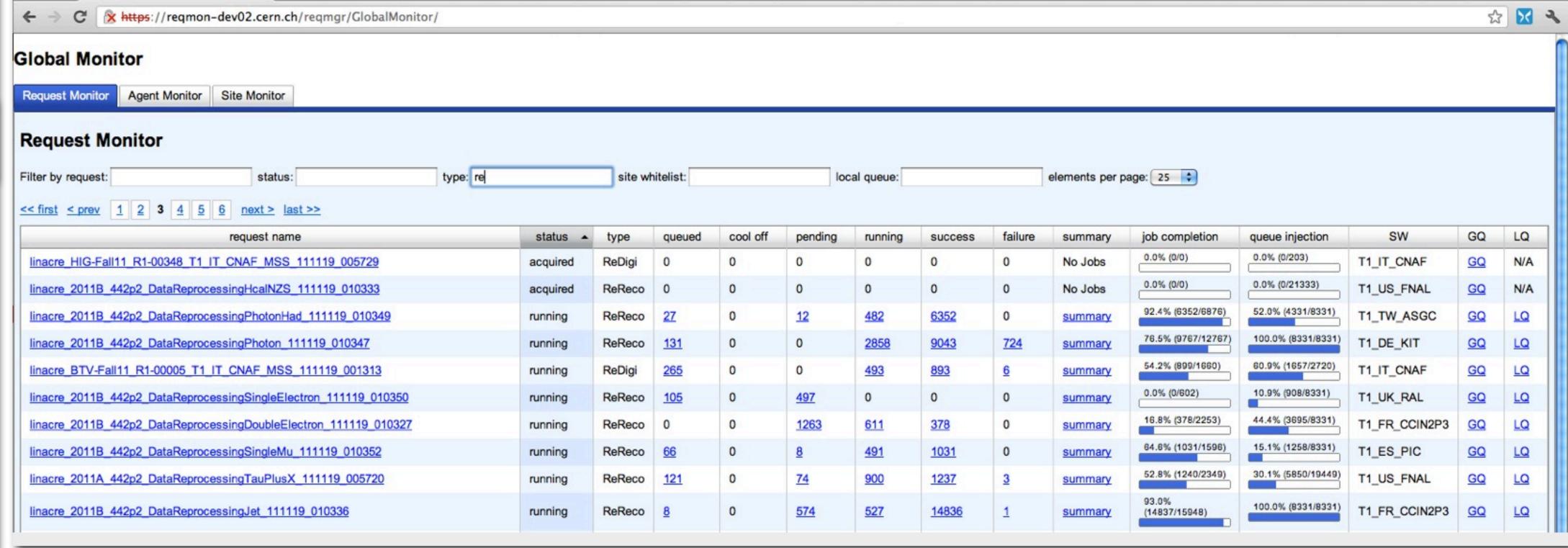
#### Actions

- Approve workflows
- Assign workflows
- Close-out workflows
- Announce workflows

#### Monitoring

- Percentage of workflow injected
- Percentage completion of injected jobs
- Workflow status
- Site(s) where the jobs are running
- Number of jobs in each state
- Status of the WMAgents

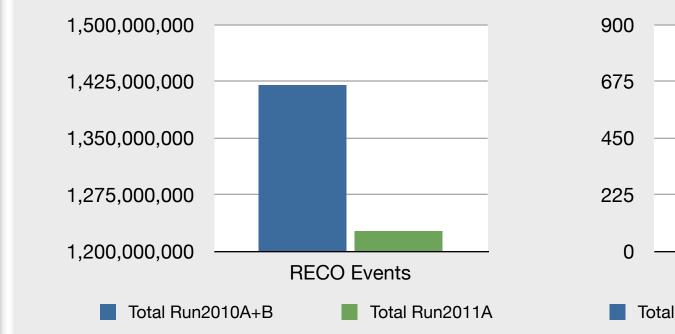
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## Recent campaigns

#### Data:

Complete reco pass for 2011A+B currently running

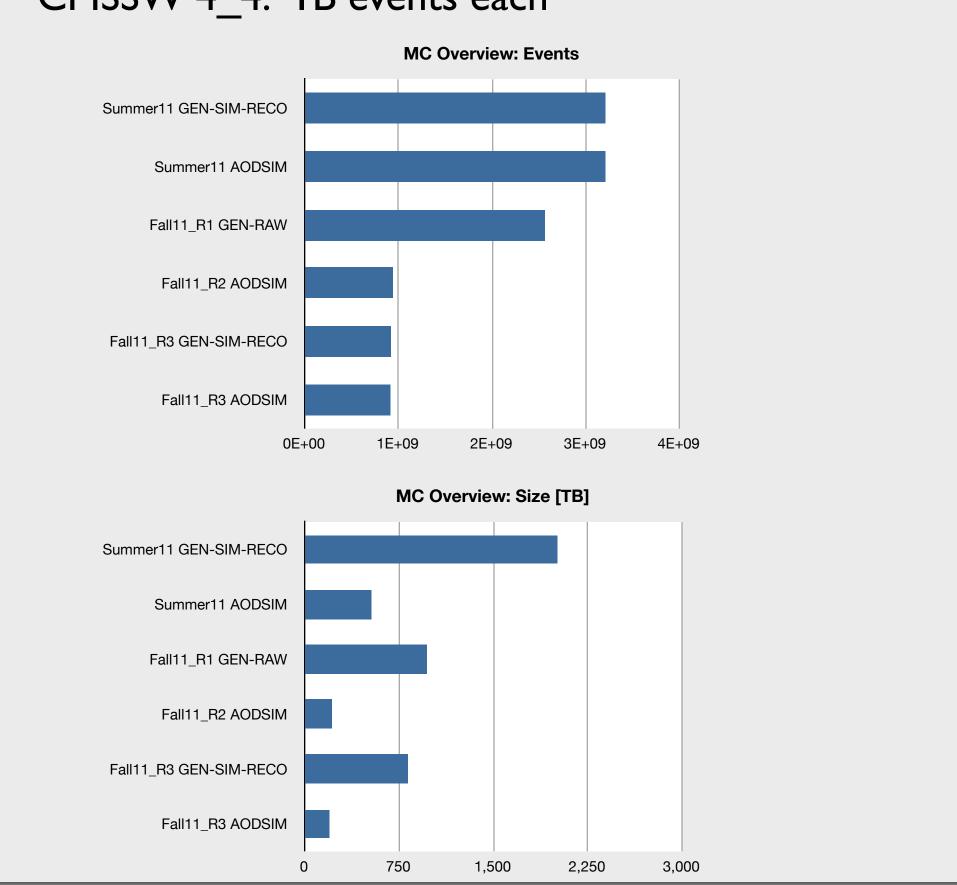


### MC: AODSIM, GEN-SIM-RECO and DQM

- ▶ 2200 Summer I I samples, 2.6B events
- ► 1000 Fall I samples so far in both CMSSW 4\_2 and CMSSW 4 4: IB events each

Total Size [TB]

Total Run2011A



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## Improvements

- System still under development
- November 2011: Request Manager was moved to cmsweb
- Improved monitoring
- Improved reliability
- Improved security
- More automation
- At the same time we moved to WMAgent 0.8.x
  - Numerous bug fixes